

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently amended) A porous ceramic heating element wherein 0.08 to 1.00 wt% of a foaming agent is added in 99.00 to 99.92 wt% of a mixture of an inorganic material, a binder, a conductive material, a hardener, a bonding agent and a dispersion medium and mixed with the mixture,

wherein the foaming agent is methyl hydrogen polysiloxane.

2. (Original) The porous ceramic heating element of claim 1 wherein the inorganic material includes at least one composition selected among steel slag, blast-furnace slag, alumina, mullite, silicon carbide, titanium carbide, silicon nitride, aluminum nitride, feldspar, zeolite, kaolin, sericite, talc, mica, illite, pearlite, vermiculite, sepiolite and diatomaceous earth and forms 40 to 66 wt% of the mixture.

3. (Original) The porous ceramic heating element of claim 1 wherein the binder is zirconium silicate and forms 2 to 6 wt% of the mixture.

4. (Original) The porous ceramic heating element of claim 1 wherein the conductive material is graphite and forms 8 to 12 wt% of the mixture.

5. (Original) The porous ceramic heating element of claim 1 wherein the hardener is any one of zinc borate, manganese borate and magnesium borate and forms 3 to 33 wt% of the mixture.

6. (currently amended) The porous ceramic heating element of claim 1, wherein the bonding agent is an alkali metal silicate and forms 16 to 37 wt% of the mixture.

7. (Original) The porous ceramic heating element of claim 1, wherein the dispersion medium is water and forms 1 to 8 wt% of the mixture.

8. (Canceled)

9. (Original) The porous ceramic heating element of claim 1, wherein the bonding agent and the hardener make a condensation polymerization reaction.

10.-12. (Canceled)

13. (New) A porous ceramic heating element wherein 0.08 to 1.00 wt% of a foaming agent is added in 99.00 to 99.92 wt% of a mixture of an inorganic material, a binder, a conductive material, a hardener, a bonding agent and a dispersion medium and mixed with the mixture,

wherein the bonding agent and the hardener make a condensation polymerization reaction.

14. (new) The porous ceramic heating element of claim 13, wherein the inorganic material includes at least one composition selected among steel slag, blast-furnace slag, alumina, mullite, silicon carbide, titanium carbide, silicon nitride, aluminum nitride, feldspar, zeolite, kaolin, sericite, talc, mica, illite, pearlite, vermiculite, sepiolite and diatomaceous earth and forms 40 to 66 wt% of the mixture.

15. (new) The porous ceramic heating element of claim 13, wherein the binder is zirconium silicate and forms 2 to 6 wt% of the mixture.

16. (new) The porous ceramic heating element of claim 13, wherein the conductive material is graphite and forms 8 to 12 wt% of the mixture.

17. (new) The porous ceramic heating element of claim 13, wherein the hardener is any one of zinc borate, manganese borate and magnesium borate and forms 3 to 33 wt% of the mixture.

18. (new) The porous ceramic heating element of claim 13, wherein the bonding agent is an alkali metal silicate and forms 16 to 37 wt% of the mixture.

19. (new) The porous ceramic heating element of claim 13, wherein the dispersion medium is water and forms 1 to 8 wt% of the mixture.